

OR ACBS 445 Nutritional PSIO + Metabolic BIOC

BACHELOR OF SCIENCE IN HEALTH SCIENCES (BSHS) – PHYSIOLOGY AND MEDICAL SCIENCES

For students entering in the 2025 – 2026 academic year

Schedule an advising appointment online: https://ua-trellis.force.com/uastudent/s/
4-year plans can be found at: https://physiology.arizona.edu/education/undergraduate/physiology-major/links

UNIVERSITY REQUIREMENTS			
University Composition Requirement	(3-6 units)	PHYSIOLOGY AND MEDICAL SCIENCES MAJOR	(36 units total)
ENGL 101 First-Year Composition	3	Required Courses	(14 Units)
ENGL 102 First-Year Composition*	3		
OR ENGL 109H First-Year Composition Honors*	3	PSIO 201 Human Anatomy & Physio I (F, SP, SSI)	4
*Grade of B or better is re	quired	PSIO 202 Human Anatomy & Physio II (F, SP, SSII)	4
Mathematics Requirements – 2 courses required		PSIO 303 Integrative Cellular Physio (F only)	3
1) Calculus I <u>or</u> Mathematics of the Biological Sys		PSIO 305 Integrative System Physio (SP only)	3
	1/4		
OR MATH 125	3	*Students must complete PSIO 201 (with a C or b	•
OR MATH 119a	4	and PSIO 202 (with a C or better) before being eli	gible to enroll
2) Calculus II or Biostatistics	2	in any 300 and 400-level PSIO courses	
MATH 129 OR MATH 263 or BIOS 376 or ECOL 379	3 3	Dhorish sized Dansonsk and Incorporation	40.00
ON WATH 203 OF BIO3 370 OF ECOL 379	3	Physiological Research and Innovation	(12 Units)
Second Language	(0-8 units)	Emphasis Requirements	
Complete <u>one</u> of the following:	(0-8 units)	I. Core Courses (6-9 Units)	
A) Complete courses through 2 nd semes	ter level	PSIO 295R (2) or PSIO 411 (F) AND	2-3
B) Pass a language proficiency exam at 2 nd semester level		PSIO 195 (1) or PSIO 496R (F/SP)	1-3
by russ a language promoterity examinate	z semester lever	Individual Studies course	1-3
General Education		marvada sedares esarse	<u> </u>
Exploring Perspectives	(12 units)	Required Individual Studies	(3 units)
Artist	,	PSIO 399/PSIO 399H Independent Study (F, SP, SS)	
	3	PSIO 499/PSIO 499H Independent Study (F, SP, SS)	
	PSIO 492 Directed Research (F, SP, SS)	3	
Humanist		PSIO 498H Honors Thesis (F, SP)	3
	3	*PSIO 411 Scientific Methods and Professional Eth	
	<u> </u>	*PSIO 496R Current Research in Physiology and	3
Social Scientist	Biomedical Sciences (F, SP)		
	3	BME 481A Innovation, Translation and Entreprene	urship (SP) 3
		PSIO 487 Physiology of Aging (F)	3
Natural Scientist		PSIO 472 Quantitative Modeling of Biological Syste	
	3	PSIO 452 Digestive Physiology (F)	3
		PSIO 484 Cardiovascular Muscle Biology and Disea	se (SP) 3
Building Connections	(9 units)	PSIO 485 Cardiovascular Physiology	3
	3 PSIO 429 Muscle Physiology (SP)	3	
	3	PSIO 450 Respiratory Physiology (SP)	3
	3	PSIO 465 Neurophysiology (SP)	3
		PSIO 467 Endocrine Physiology	3
UNIV 101 – Intro to Gen Ed Experience	1 1	PSIO 469 Reproductive Physiology	3
UNIV 301 – Gen Ed Portfolio	1	PSIO 431 Physiology of the Immune System (F, SP)	3
		*Course may be used if not used in Requ	irad Cara
Mid-Career Writing Assessment		Course may be used if not used in hequ	illed Cole
Satisfied by a grade of A or B in ENGL 102 or 109H		Choose additional required elective courses (1	() units
COURT DE OLUBERATRICO	(a= ': \	Choose any upper-division electives from major ele	
SCIENCE REQUIREMENTS	(35 units)	checklist of elective options). 6 of the 10 units mus	
CHEM 151 General Chemistry I	4		•
CHEM 152 General Chemistry II	4	courses; the remaining 4 units can come from inde	
CHEM 241a Organic Chemistry I Lecture	3	research, mentorship or preceptorship units or add	
CHEM 243a Organic Chemistry I Lab	1 3	Elective course	1-4
CHEM 241b Organic Chemistry II Lecture	3	Elective course	1-4
CHEM 243b Organic Chemistry II Lab	1	Elective course	1-4
MCB 181R Introductory Biology I Lecture	1 3	Elective course	1-4
MCB 181L Introductory Biology I Lab	1		
ECOL 182R Introductory Biology II Lecture	3	Total Units for degree: 120 uni	ts
ECOL 182L Introductory Biology II Lab	1		10. / 11
PHYS 110 Introductory Physics I	4	Required: Minimum of 42 units of upper-division of	•
PHYS 111 Introductory Physics II	4	numbered 300-499). The major coursework could p	
BIOC 384 Foundations in Biochemistry		units; however, the remaining 19 units are up to the additional PSIO Major Electives, Research or Intern	_
OR BIOC 385 Metabolic Biochemistry	3	minor, or general elective courses.	anno, an optional



BACHELOR OF SCIENCE IN HEALTH SCIENCES (BSHS) – PHYSIOLOGY AND MEDICAL SCIENCES Major Electives List

PSIO 101 PSIO 195 PSIO 295H PSIO 295R PSIO 395A PSIO 395B PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429 PSIO 431	Tackling Physiological Topics (First-year Spring Semester) Freshman/Sophomore Colloquium Introduction to Honors in Physiology Introduction to the Scientific Methods and Research PhysioConnects A PhysioConnects B Advanced Topics in Cellular Physiology	PSIO 391 PSIO 391H PSIO 393 PSIO 399 PSIO 399H PSIO 492	y, Thesis, Preceptorship
PSIO 195 PSIO 195 PSIO 295H PSIO 295R PSIO 395A PSIO 395B PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	Freshman/Sophomore Colloquium Introduction to Honors in Physiology Introduction to the Scientific Methods and Research PhysioConnects A PhysioConnects B Advanced Topics in Cellular Physiology	PSIO 391H PSIO 393 PSIO 399 PSIO 399H	Honors Student Preceptorship PSIO Peer Mentorship
PSIO 295H PSIO 295R PSIO 295R PSIO 395A PSIO 395B PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	Introduction to Honors in Physiology Introduction to the Scientific Methods and Research PhysioConnects A PhysioConnects B Advanced Topics in Cellular Physiology	PSIO 393 PSIO 399 PSIO 399H	PSIO Peer Mentorship
PSIO 295R PSIO 395A PSIO 395B PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	Introduction to the Scientific Methods and Research PhysioConnects A PhysioConnects B Advanced Topics in Cellular Physiology	PSIO 399 PSIO 399H	·
PSIO 395A PSIO 395B PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	PhysioConnects A PhysioConnects B Advanced Topics in Cellular Physiology	PSIO 399H	Independent Study
PSIO 395B PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	PhysioConnects B Advanced Topics in Cellular Physiology		
PSIO 404 PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	Advanced Topics in Cellular Physiology	1 DSIU 103	Honors Independent Study
PSIO 411 PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429	, ,,		Directed Research
PSIO 420 PSIO 425 PSIO 426 PSIO 427 PSIO 429		PSIO 496R	Current Research in
PSIO 425 PSIO 426 PSIO 427 PSIO 429	Scientific Methods and Professional Ethics		Physiology and Biomedical
PSIO 426 PSIO 427 PSIO 429	Exercise and Environmental Physiology		Sciences
PSIO 427 PSIO 429	Measurement and Evaluation of Physiological Function	PSIO 498H	Honors Thesis
PSIO 429	Extreme Physiology	PSIO 499	Independent Study
	Metabolism & Disease	PSIO 499H	Honors Independent Study
2SIO 431	Muscle Physiology		
	Physiology of the Immune System		
PSIO 441	Musculoskeletal Kinesiology		
PSIO 442	Biomechanics of Human Movement		
PSIO 450	Respiratory Physiology		
PSIO 452	Digestive Physiology		
PSIO 465	Neurophysiology		
PSIO 467	Endocrine Physiology		
PSIO 469	Human Reproductive Physiology		
PSIO 472	Quantitative Modeling of Biological Systems		
PSIO 484	Cardiovascular Muscle Biology and Disease		
PSIO 485	Cardiovascular Physiology		
PSIO 487	Physiology of Aging		
PSIO 489	Current Topics in Physiology		
PSIO 495H	Senior Honors Thesis Preparation		
PSIO 495K	Inflammation and Disease		
PSIO 495M	Musculoskeletal Physiology		
PSIO 495S	Sex Matters in Medicine		
PSIO 495T	Topics in Physiology		
CMM 401	Human Gross Anatomy		
CMM 410	Human Histology: An Introduction to Pathology		
CMM 465	Fundamentals of Light Microscopy and Electronic Imaging		
ECOL 320	Genetics		
FCM 201	Being a Health Care Professional: An Overview		
MB 401	Medical Microbiology and Immunology		
MCB 304	Molecular Genetics		
MCB 325	Biology of Cancer		
NSC 308	Nutrition and Metabolism		
NSC 445	Assessment and Regulation of Human Body Composition		
NURS 493	K-8 Health Connectors Internship		
PATH 415	Mechanisms in Human Disease		
PATH 416	The Nature of Disease: Diseases of Organ Systems		
PCOL 320	What's Your Poison? Toxicology of Substances that Surround Us		
PCOL 434	Pharmacology of Sex		
PCOL 436	Cardiovascular Pharmacology		
PHCL 412	Introduction to Pharmacology		
PHCL 422	Introduction to Toxicology		
PHCL 430	Pain Pharmacology		
PHCL 442	Human Performance Pharmacology		